

Work Order ID 83000

8.30000

Page 1

Thursday, April 12, 2012 12:40:55 PM

Item ID: D407-558-045

Accept

N9000040100

Setup Start *NS1*

Revision ID:

Item Name: Single Cargo Mirror Assembly, 6 inch Round

Stop *NS2*

Start Date: 4/12/2012 Start Qty: 1.00 *1*

Cust Item ID:

Required Date: 4/30/2012 Req'd Qty: 1.00 *1*

Customer:

Reference: REWORK PER ECN 12-554

Approvals: Process Plan: *MF* Date: 12-04-12 Tooling:

Run Start *NR1*

QC: Date: SPC (Y/N):

Date:

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
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DSI 9436	A
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160

0.00

160

Packaging

Memo

0.00

Packaging

PULL FROM STOCK D407-558-045 X 1 B 81336

REMOVE AND PUT BACK INTO STOCK: D2071-3 X1 B *73574*
D3778-1 X1 B *71205*

REPLACE WITH:
D2071-5 X1 B *82972*
D3778-3 X1 B *83010*

CC 12/4/B3 (1)

170

QC4- 100% Inspect kits for completeness

0.00

170

QC

Memo

0.00

Quality Control

826430

(1)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 83000

Thursday, April 12, 2012 12:40:55 PM

83000

Page 2

Item ID: D407-558-045

Accept

N900040100

Setup Start

NS1

Revision ID:

Item Name: Single Cargo Mirror Assembly, 6 inch Round

Stop

NS2

Start Date: 4/12/2012 Start Qty: 1.00

1

Cust Item ID:

Required Date: 4/30/2012 Req'd Qty: 1.00

1

Customer:

Reference: REWORK PER ECN 12-554

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

180

Identify as per dwg & Stock Location: _____

0.00

180

Packaging

Memo

0.00

Packaging

ID AND STOCK UNDER NEW BATCH NUMBER AND CHANGE 3

Handwritten: 12-4-30

Handwritten signature

190

QC21- Final Inspection - Work Order Release

0.00

190

QC

Memo

0.00

Quality Control

Handwritten: 12/5/12

Handwritten: MLW 12/04/30

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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NOTE: Date & initial all entries

Picklist Print

Thursday, April 12, 2012 12:40:54 PM

Page 1

Work Order ID: 83000

Parent Item: D407-558-045

Parent Item Name: Single Cargo Mirror Assembly, 6 inch Round

Start Date: 4/12/2012

Required Date: 4/30/2012

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:A 09-01-15 new issue DD verified by:ec IPP Rev:B 10.06.17 added grommet
DD verf:EC IPP REV:C 11.01.19 AS PER chg002 DD VERF:EC IPP
REV:D 12.04.04 AS PER chg003 DD VERF:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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D2071-3		Manufactured	No				Each	5.0000		-1			
---------	--	--------------	----	--	--	--	------	--------	--	----	--	--	--

				Location	Loc Qty	Loc Code
				ST222	5	
				73054	5	

D2071-5		Manufactured	No				Each	0.0000		1			
---------	--	--------------	----	--	--	--	------	--------	--	---	--	--	--

D3778-1		Manufactured	No				Each	1.0000		-1			
---------	--	--------------	----	--	--	--	------	--------	--	----	--	--	--

				Location	Loc Qty	Loc Code
				ST228	1	
				71205	1	

D407-558-045		Manufactured	No				Each	0.0000		1			
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Single Cargo Mirror Assembly, 6 inch Round

1 x 81336 MF

12-04-12

D3778-3

B83010

DART Dart Aerospace Ltd. 1270 ABERDEEN ST. HAWKESBURY ON CANADA K6A 1K7				TC APPROVAL #00-89 TEL: 1-613-632-5200	
P/N	D407-558-045	CHG	CHG003		
DESC.	Single Cargo Mirror Assy	SIC	SH92-17		
LOT	B81336	SIC	SH1031NE		
MODEL	Bell 407	SIC			
MADE IN CANADA					

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D206-558 REV. C OR EARLIER
AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D206-558 REV. 0

REF: CANADIAN STC SH92-17
REF: FAA STC SH1031NE

PURPOSE:

IT HAS COME TO DART'S ATTENTION THAT A DIFFERENT CABLE IS REQUIRED WHEN INSTALLING THE DART D407-558-045/-047 SINGLE/DUAL CARGO MIRROR ASSEMBLY ON A BHT 407GX AIRCRAFT.

THEREFORE, IN D407-558-045/-047 AT CHG 003 OR LATER, THE D2071-3 CABLE ASSEMBLY HAS BEEN REPLACED WITH THE D2071-5 CABLE ASSEMBLY.

THE D3778-1 BRACKET HAS ALSO BEEN REPLACED WITH THE D3778-3 BRACKET FOR BETTER PILOT COMFORT.

NOTE THAT THESE CHANGES ARE COMPATIBLE WITH THE ORIGINAL 407 AIRCRAFT SO THE CONTENT OF THIS DSI SUPERCEDES THE CONTENT OF DSI 9412 REV. A AND DSI 9436 REV. A.

CUSTOMERS WHO NEED TO UPGRADE D407-558-045/-047 MIRROR KITS FOR COMPATIBILITY WITH THE 407GX AIRCRAFT MUST PROCURE THE DSI9604-011 KIT FROM DART.

DSI 9604-011 PARTS LIST:

Qty -011	Part Number	Description
X	DSI 9604-011	MIRROR UPGRADE KIT
1	D2071-5	CABLE ASSEMBLY (REPLACES D2071-3)
1	D3778-3	BRACKET (REPLACES D3778-1)

8300

CANADA DEPARTMENT OF TRANSPORT AIRCRAFT CERTIFICATION BRANCH DAO # 01-O-01	
APPROVED	
BY:	
D. SHEPHERD (DE # 02)	
DATE:	12.03.26
CERT. NO.:	SH92-17
ISSUE NO.:	7

A	NEW ISSUE		MB	12.03.26
REV.	DESCRIPTION		BY	DATE
DESIGN	MB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWN	AJS			
CHECKED	#	DRAWING NO.	REV. A	
MFG. APPR.	N/A	DSI 9604	SHEET 1 OF 3	
APPROVED		TITLE	SCALE	
DE APPR.		MIRROR UPGRADE	NTS	
DATE	12.03.26		COPYRIGHT © 2012 BY DART AEROSPACE LTD	
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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

INSTALL CHANGE:

INSTALL THE D2071-5 CABLE ASSEMBLY PER INSTALLATION INSTRUCTIONS D206-558 REV. C OR EARLIER AND MAINTAIN PER ICA-D206-558 REV. 0.

INSTALL THE D3778-3 BRACKET AS DESCRIBED BELOW:

- 1) IF INSTALLED, REMOVE THE EXISTING VENT CONTROL BRACKET AND REMOVE THE VENT CONTROL.
- 2) PICKING UP ON EXISTING ANCHOR NUTS, INSTALL THE D3778-3 BRACKET USING AN526-1032R9 SCREWS.
- 3) INSTALL THE VENT CONTROL IN THE LOWERSLOT. INSTALL THE D2071-5 CABLE IN THE UPPER SLOT.

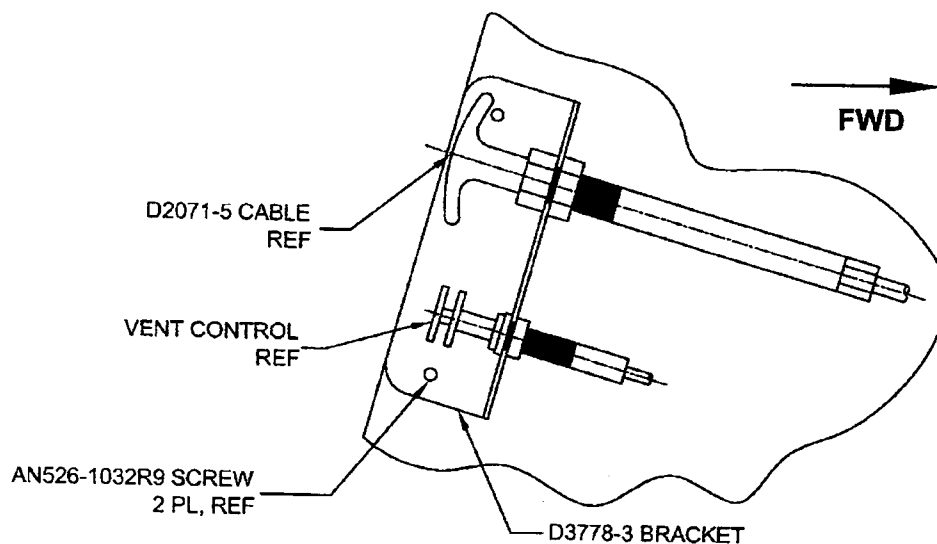


FIGURE 1 - BRACKET INSTALLATION

83000

CANADA DEPARTMENT OF TRANSPORT AIRCRAFT CERTIFICATION BRANCH DAO # 01-O-01	
APPROVED	
BY:	D. SHEPHERD (DE # 02)
DATE:	12.03.26
CERT. NO.:	SH92-17
ISSUE NO.:	7

DESIGN	MB	DART AEROSPACE LTD	
DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9604	SHEET 2 OF 3
APPROVED		TITLE	SCALE
DE APPR.		MIRROR UPGRADE	NTS
DATE	12.03.26	COPYRIGHT © 2012 BY DART AEROSPACE LTD	
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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

AMEND SECTIONS 4.0 AND 5.0 OF INSTALLATION INSTRUCTIONS D206-558 REV. C OR EARLIER AND SECTIONS 25.3 AND 25.4 OF ICA-D206-558 REV. D AS FOLLOWS:

4.0 WEIGHT AND BALANCE (D206-558 REV. C OR EARLIER)
25.3 WEIGHT AND BALANCE (ICA-D206-558 REV. 0)

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D206-558-041	2.4 lb	+5.0 in	+12.0 in-lb	+14.8 in	+35.5 in-lb
Bell 206A/B/L/L1/L3/L4	1.09 Kg	+0.13 m	+0.14 m-Kg	+0.38 m	+0.41 m-Kg
D206-558-043	3.0 lb	0.0 in	0.0 in-lb	+14.8 in	+44.4 in-lb
Bell 206A/B/L/L1/L3/L4	1.36 Kg	0.0 m	0.0 m-Kg	+0.38 m	+0.52 m-Kg
D407-558-045	2.4 lb	+5.0 in	+12.0 in-lb	+14.8 in	+35.5 in-lb
Bell 407	1.09 Kg	+0.13 m	+0.14 m-Kg	+0.38 m	+0.41 m-Kg
D407-558-047	3.0 lb	0.0 in	0.0 in-lb	+14.8 in	+44.4 in-lb
Bell 407	1.36 Kg	0.0 m	0.0 m-Kg	+0.38 m	+0.52 m-Kg

5.0 PARTS LIST (D206-558 REV. C OR EARLIER)
25.4 PARTS LIST (ICA-D206-558 REV. 0)

Qty -041	Qty -043	Qty -045	Qty -047	Part Number	Description
X				D206-558-041	SINGLE CARGO MIRROR ASSEMBLY
	X			D206-558-043	DUAL CARGO MIRROR ASSEMBLY
		X		D407-558-045	SINGLE CARGO MIRROR ASSEMBLY
			X	D407-558-047	DUAL CARGO MIRROR ASSEMBLY
1	2	1	2	D2011-101	MIRROR ASSEMBLY
2	2	2	2	D2052	BRACKET
1	1	1	1	D2053	BRACKET
2	2	2	2	D2054	BUSHING
1	1	1	1	D2055	CLAMP
1	1	1	1	D2056	BELLCRANK ASSEMBLY
1		1		D2057	PLUG
1		1		D2065	ARM
	1		1	D2066	ARM
1	1	1	1	D2067	CONNECTOR
1	1			D2071	CABLE ASSEMBLY
		1	1	D2071-5	CABLE ASSEMBLY
1	2	1	2	D3014-1	* LOCKNUT
1	1			D3778-1	BRACKET
		1	1	D3778-3	BRACKET
4	4	4	4	AN3-4A	BOLT
4	4	4	4	AN526-1032R9	SCREW
1	2	1	2	AN960JD416L	* WASHER
4	4	4	4	AN960JD10	WASHER
6	6	6	6	AN960JD10L	WASHER
3	3	3	3	MS21042-3	NUT (or MS21042L3)
2	2	2	2	MS21919DG5	CLAMP
2	2	2	2	MS27039-1-18	SCREW
1	1			MS35489-9	GROMMET
		1	1	MS35489-67	GROMMET

* INCLUDED AS PART OF D2011-101 MIRROR ASSEMBLY

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: *[Signature]*
D. SHEPHERD (DE #02)

DATE: 12.03.26
CERT. NO.: SH92-17
ISSUE NO.: 7

DESIGN	MB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9604	SHEET 3 OF 3
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	MIRROR UPGRADE	NTS
DATE	12.03.26	COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

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